

ROUTINE

MWO Effective date is 1 June 1998 and completion date is 1 June 2004.

***MWO 3-4240-346-20-1**
31 October 2001

SUPERSEDING
MWO 3-4240-347-20-1
1 June 1998

MODIFICATION WORK ORDER

MODIFICATION OF MASK-CHEMICAL-BIOLOGICAL: Field, M40
(NSN 4240-01-258-0061 – SMALL)
(NSN 4240-01-258-0062 – MEDIUM)
(NSN 4240-01-258-0063 – LARGE)

MASK-CHEMICAL-BIOLOGICAL: Field M40A1
(NSN 4240-01-370-3821 – SMALL)
(NSN 4240-01-370-3822 – MEDIUM)
(NSN 4240-01-370-3823 – LARGE)

MASK-CHEMICAL-BIOLOGICAL: Combat Vehicle M42A2
(NSN 4240-01-413-4100 – SMALL)
(NSN 4240-01-413-4101 – MEDIUM)
(NSN 4240-01-413-4102 – LARGE)

HEADQUARTERS, DEPARTMENT OF THE ARMY, WASHINGTON, D.C.

31 October 2001

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this MWO. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028, Recommended Changes to Publications and Blank Forms direct to Technical Director, U.S. Army, Soldier and Biological Chemical Command, ATTN: AMSSB-REN-CW (D. Storms, E3549), Aberdeen Proving Ground, MD 21010-5424.

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*This MWO supersedes MWO 3-4240-347-20-1 dated 1 June 1998.

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1. **PURPOSE.** The Purpose of this modification is to enhance the durability of the M40 and M42 Series Protective Masks by installing a Retaining Clamp on to the Face piece which will preclude any additional separation (if present) of the silicone rubber from the Outlet Valve Housing. This modification also adds a set of Preventative Maintenance Checks and Services (PMCS) Cards to the carrier of the M40/M42 Series Masks.

2. **PRIORITY.** This Modification is classified ROUTINE.

3. **END ITEM OR SYSTEM TO BE MODIFIED:**

NOMENCLATURE	LIN	NSN
Chemical-Biological Mask: Field M40 (Small)	M12418	4240-01-258-0061
Chemical-Biological Mask: Field M40 (Medium)	M12418	4240-01-258-0062
Chemical-Biological Mask: Field M40 (Large)	M12418	4240-01-258-0063
Chemical-Biological Mask: Field M40A1 (Small)	M12418	4240-01-370-3821
Chemical-Biological Mask: Field M40A1 (Medium)	M12418	4240-01-370-3822
Chemical-Biological Mask: Field M40A1 (Large)	M12418	4240-01-370-3823

NOMENCLATURE	LIN	NSN
Chemical-Biological Mask: Combat Vehicle M42A2 (Small)	M18526	4240-01-413-4100
Chemical-Biological Mask: Combat Vehicle M42A2 (Medium)	M18526	4240-01-413-4101
Chemical-Biological Mask: Combat Vehicle M42A2 (Large)	M18526	4240-01-413-4102

4. **MODULE(S) (COMPONENTS, ASSEMBLIES, SUBASSEMBLIES, BOARDS, AND CARDS) TO BE MODIFIED.** Not Applicable.

5. **PARTS TO BE MODIFIED.** Not Applicable

6. **APPLICATION.**

- a. Time Compliance Schedule: This MWO is effective as of June 1998. The instructional video tapes and MWO kits will be available for shipment to all active Army, Reserve and National Guard units. Units have 6 years to install the MWO kits.
- b. Level of Maintenance: The lowest level of maintenance authorized to apply this MWO is at UNIT LEVEL -20.
- c. The total man-hours required for a single application of this MWO is 0.133 hours.
- d. Military Occupational Specialist (MOS): This effort will be performed by individuals who have the "63J", MOS classification and will be supported by individuals who have a "54B", MOS classification. The 63J individuals are Chemical Equipment Specialist and the 54B individuals are Nuclear, Biological and Chemical Operations Specialist.

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- 7. TECHNICAL PUBLICATIONS AFFECTED/CHANGED.** TM 3-4240-346-10, dated 1 Aug 98; TM 3-4240-346-20&P, dated 1 Aug 98.

8. MWO KIT(S)/PART(S) AND THEIR DISPOSITION.

- a. Contents of MWO Kits are in the following list:

NOMENCLATURE	CAGE	PART NUMBER	NSN
Retaining Clamp	06383	PLT 1.5M-MUV5C/N OR PLT 1.5 M-MO	None
Tensioning Tool	06383	GS2B	None
PMCS Cards	81361	5-1-2797	TBD

9. SPECIAL TOOLS; TOOL KITS; JIGS; TEST, MEASUREMENT AND DIAGNOSTICS EQUIPMENT(TMDE); FIXTURES REQUIRED; AND TOOLS:

- a. Special Tool: The Tensioning Tool which is provided with the kit is the only tool required to apply the retaining clamp.
- b. No other equipment is required.

10. MODIFICATION PROCEDURES:

- a. Place one set of PMCS Cards behind the -10 Operator's Manual in the mask carrier. Use the PMCS Cards as a supplement to the existing -10 operator's manual, not as a replacement.
- b. Install Retaining Clamp: Procedures on the following 2 pages:

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1. Remove outserts, outlet valve cover, hood and second skin in this sequence.
2. Place retaining clamp behind connection of external drink tube as shown in FIGURE 1. Note, the ridged side of the clamp should face inward.

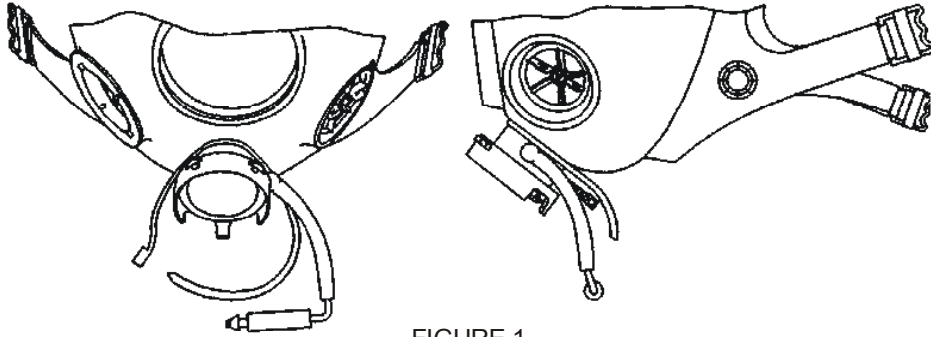


FIGURE 1

3. Feed the pointed end of the retaining clamp through the rectangular hole in the other end of the retaining clamp with ridges facing inward.
4. While pulling the pointed end until tight, position the rectangular lug end of the clamp between 6 o'clock and 9 o'clock on the outlet valve body, when viewing the mask from the front.
5. Flip the adjustment knob on the GS2B tensioning tool so that the "min" side is facing downward, as shown in FIGURE 2.

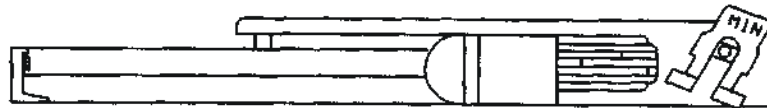
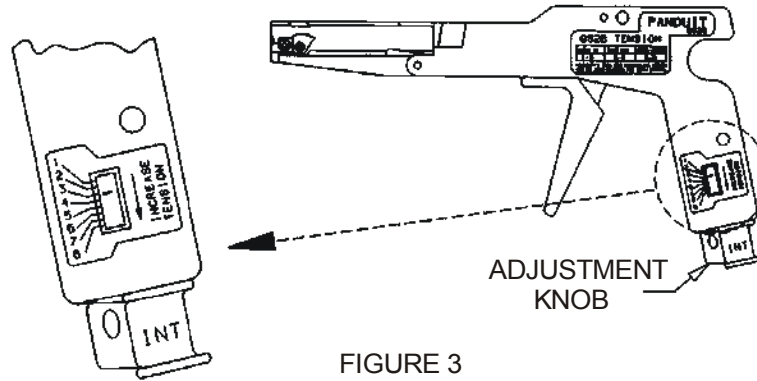
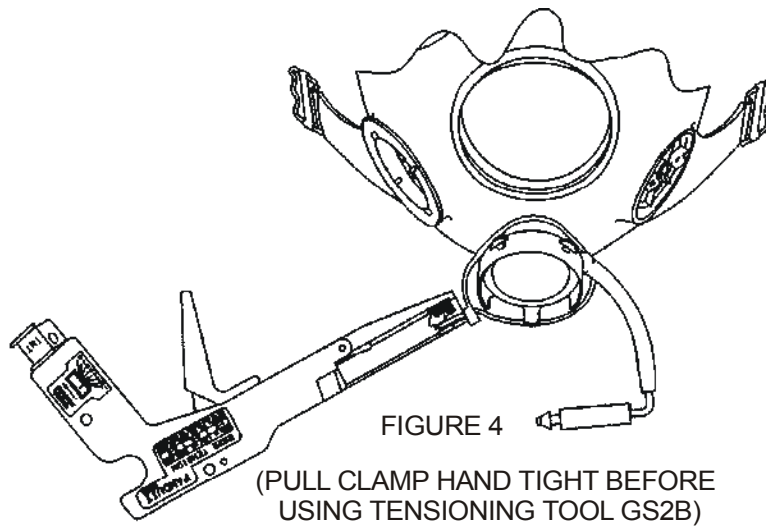


FIGURE 2
(BOTTOM VIEW OF TENSIONING TOOL GS2B)

6. Turn the adjustment knob on the GS2B so the dash in the tension indicator window is at the "3", as shown in FIGURE 3.



7. Place the pointed end of the retaining clamp into the end of the GS2B tensioning tool, as shown in FIGURE 4.



8. Quickly pull the trigger to tighten and cut off the retaining clamp.
9. Replace the second skin, hood, outlet valve cover and outserts.

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11. CALIBRATION REQUIREMENTS. Not Applicable

12. WEIGHT AND BALANCE DATA. Not Significantly Affected

13. QUALITY ASSURANCE REQUIREMENTS.

- a. The 54B individuals will inspect the mask to ensure that the Retaining Clamp is properly in place at least once a year when each soldier undergoes his verification of fit test with the M41 Protection Assessment Testing System (PATS). If the Retaining Clamp is missing, loose or broken, contact the installation MWO Office to make arrangements to obtain the necessary materials to apply the clamp.
- b. Request that the Tensioning Tool and excess Retaining Clamps be retained until 1 June 2004. Retention of these kits is necessary to ensure that if any units or individuals fail to apply the MWO in the required time frame, they can easily obtain the kits.

14. RECORDING AND REPORTING OF THE MODIFICATION.

Records and reports. The organization responsible for MWO application will report application information as follows:

a. Reporting will be accomplished by electronic means if possible. A DA Form 2407/5504 shall be completed and submitted if electronic reporting is not possible. If electronic reporting is used, MWO application information can be input directly into the Modification Management Information System (MMIS) over the Internet. Entry into the MMIS system is password protected. New users can register on-line at <http://65.196.121.253/MWO/>. Passwords are normally approved and issued within 48 hours.

b. Submission will be comprised of the nine (9) data elements listed in table 9. Elements 1, 2, 5, 6 and 9 are given for this MWO (as shown). The person reporting the MWO data will acquire the remaining data elements and input all nine into MMIS.

No.	Data Element	Input Data
1	Materiel Change Number	1-02-08-0002
2	MWO Number	3-4240-346-20-1
3	Unit Identification Code	
4	NSN of the End Item	
5	Serial Number	N/A
6	Registration Number	N/A
7	Date of Application	
8	Hours required for Application	
9	Software Version	N/A

15. MATERIEL CHANGE (MC) NUMBER. This MWO is authorized by MC Number 1-02-08-0002.

16. MODIFICATION IDENTIFICATION. The Retaining Clamp is visible on the external portion of the Outlet Valve Housing under the one-piece hood or second skin. PMCS Card set is in place in the carrier pocket.

By Order of the Secretary of the Army:

DENNIS J. REIMER
General, United States Army
Chief of Staff

Official:

JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army

DISTRIBUTION:

To be distributed in accordance with the initial distribution number (IDN) 280847 requirements for MWO
3-4240-346-20-1